Pioneer sound.vision.soul

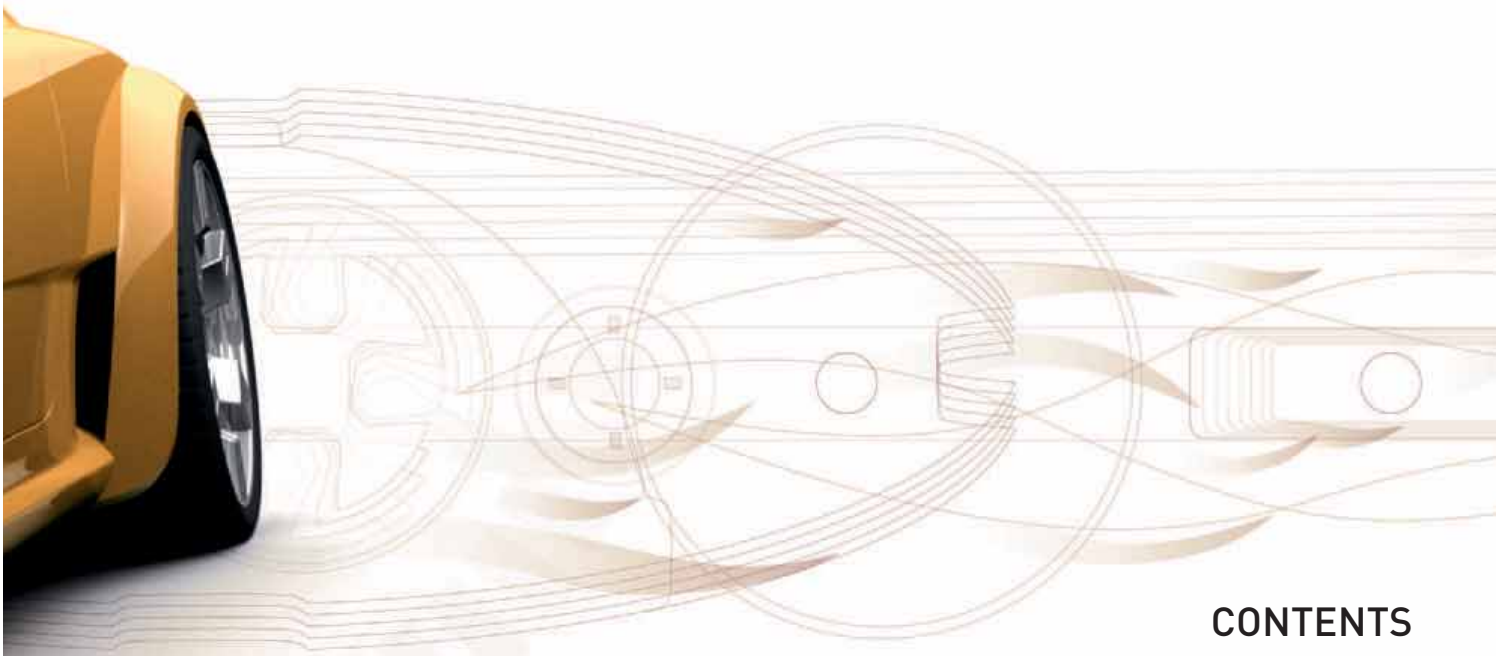
Preview In-Car Entertainment 2005

EXPRESS YOURSELF

You're an original. You make your own choices, your own statement. You settle for nothing less than perfect.

Because only the best will do, you choose Pioneer. Like you, Pioneer products dare to make a statement...of innovation, quality, individuality.

The new Pioneer. Let your in-car entertainment speak the truth about you.



CONTENTS

HEADUNITS	**4**
HIGH POWER CD RDS TUNERS	4
HIGH POWER DOUBLE-DIN TUNER	15
HIGH POWER CASSETTE RDS TUNERS	16
MULTI-CD PACKAGES / MULTI-CD PLAYERS	18
ACCESSORIES	19
PRS — PIONEER REFERENCE SERIES	**20**
AMPS 'N SUBS	**22**
AMPLIFIERS	22
SUBWOOFERS	24
SPEAKERS	**26**
a-CCELERATE SPEAKERS	26
Q-LEVEL SPEAKER	27
GLOSSARY	**28**
FEATURE & SPECIFICATION CHARTS	**29**

Dare to be different

Pioneer is where exceptional in-car music starts. What a choice you will have too. From classic to conceptual, functional to futuristic. Displays in a range of colours and types. Even hook-up to iPod® for thousands of fab tunes on the move. Up-to-the-minute look-n-feel, with the style you want. What about sound? Pioneer really takes it here: hands-down top technology and radically innovative concepts. Are you hooked yet? Read on.

DEH-P9600MP

WMA/MP3/WAV/CD RDS TUNER

Rev up for a revolution in design and entertainment with this stunning conceptual headunit. The motorised silver front panel slides in and out to reveal a dynamic 3-D multi-language Colour Organic EL display. Completely control every dimension of your listening experience with the advanced built-in DSP, the Auto Time Alignment and Auto EQ features.

R·D·S · Radio Text · D4Q · CD Text · Disc Title Memory · CD-R CD-RW · iPod Adapter Ready · MOSFET 50Wx4 · Advanced DSP · 3 RCA Pre-Outs · Hi-Volt · Sub Display Output · iP-Bus Control · Full DAB Source Control · TV Control · OEL

MP3 · Windows Media

For more information on the iPod® adapter, please see page 11.

Standard 10-key Remote Control

The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

DEH-P8600MP

WMA/MP3/WAV/CD RDS TUNER

MP3

For more information on the iPod® adapter, please see page 11.

Unrivalled sonic pleasure is what this high-tech headunit is all about. The built-in DSP lets you personalise your sound to your individual style. Not only your bass, treble and vocals will have your signature touch, you can also customise your Colour Organic EL display with hyper-realistic 3-D imagery, using Pioneer's Screensaver Studio software. Control has taken a turn for the futuristic as well, with the rotary commander: a single knob that puts you in control of all features and functions. Or opt for the practical 10-key remote control.

Standard 10-key Remote Control

ADD MORE COLOUR TO YOUR CAR

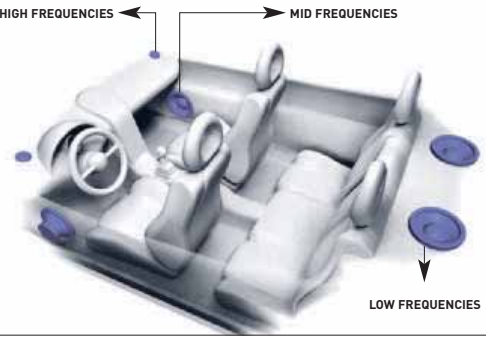
Pioneer's Organic EL displays offer comprehensive control, a wide viewing angle, as well as high contrast and brightness. With Pioneer's revolutionary Colour Organic EL display you will get all that and more. Found on the DEH-P9600MP and DEH-P8600MP, this impressive multi-colour display offers a wide range of vivid animation possibilities. You'll be impressed by the excellent 3-D realism, all in colour. It can even create eye-catching pure white graphics. Customise your new multi-colour display using a CD-R or CD-RW. Surf to www.pioneer.co.jp/car/pclink3a* and download the software to get started. Check it out, you'll be amazed.

*** For the DEH-P9600MP and DEH-P8600MP**

CREATE A PROFESSIONAL IN-CAR SOUND WITH EASE

Customise your in-car sound like a professional using the advanced DSP. It achieves true perfection in sound tuning by integrating three technologies. The Burr-Brown 1-bit DAC with 24-bit resolution ensures music is as close to the original as possible. Advanced Auto Time Alignment adjusts the sound image depending on your chosen listening position. Finally, Auto EQ corrects the balance of the acoustics according to your car's interior. There are even 5 preset equalisation curves, plus a nuance control function, so you can make subtle sound adjustments as you desire.

3-WAY NETWORK MODE



For full features, please see page 29.

HEADUNITS

DEH-P80MP

WMA/MP3/WAV/CD RDS TUNER

MP3

For more information on the iPod® adapter, please see page 11.

The dynamic DEH-P80MP catapults you straight into the future of technological design. The pure blue OEL makes an attractive background to host customised animations from any CD-R/CD-RW. Not only is the look futuristic, but the sound is too. Got an iPod®? Ask for the optional iPod® adapter and get your entire song collection on the move. The super-charged MOSFET 60 W x 4 amplifier ensures booming beats and tremendous tones whilst the BMX (Bitmetric Equaliser) purifies compressed audio files. Add up separate amps and speakers to create an unparalleled in-car listening experience.

Standard 10-key Remote Control

UNSURPASSED AUDIO PERFORMANCE WITH THE MOSFET 60 W X 4 POWER AMP

There's no other amp like it. Pioneer's revolutionary MOSFET 60 delivers 60 W x 4 of outstanding-quality output power with no direct connection to the battery. How's that for impressive? With no direct battery connection necessary, installation is easy. Small on size, huge on power and performance — it's what every audiophile dreams of.

Note: An ACC fuse of no less than 10 A is required. When there is no ACC fuse or when its amperage is less than 10 A, the DEH-P80MP can still support 40 W maximum power.

FUTURISTIC CONTROL OF YOUR ENTERTAINMENT WORLD

If you want a glimpse of the future, it's here and it's round. Pioneer's rotary commander is definitely ahead of its time. Found on the DEH-P8600MP and DEH-P80MP, it provides simple and quick control of all functions using just one knob. Turn it left or right, press it, or simply push it to navigate joystick-style through different radio stations or to access folders and files. It's so simple and so smart; you'll wonder how you ever managed without it.

SHOW YOUR COOL, DISPLAY IT BLUE

Subtle in hue, the pure blue OEL display on the DEH-P80MP and DEH-P7700MP is huge on allure. Making a cool, smart and trendy statement, it even plays customised animations. Like other Pioneer OEL displays, it offers comprehensive control as well as wide viewing angles, active 3-D visuals, and high contrast and brightness — even in sunlight. Thanks to Pioneer's Screensaver Studio you can download hip background images, level indicators and movies by visiting www.pioneer.co.jp/car/pclink3b*.

*** For the DEH-P80MP only.**

DEH-P80MP Powerful Mode display

DEH-P80MP Analogue Level Indicator display

DEH-P7700MP movie display

The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

DEH-P77MP

WMA/MP3/CD RDS TUNER

You believe in functionality as well as smart design. This must have caught your eye already. The DEH-P77MP's aluminium plating and striking bright, white dot-matrix LED display spells contemporary without forgetting the functional requirements of a high-performing CD tuner. Featuring the legendary MOSFET 50 amplifier and Burr-Brown D/A converters, it will enhance every element of your listening pleasure. Pair this high-fidelity attitude with its high-tech D4Q tuner and precision-engineered equaliser system, and it has no choice but to make your sonic dreams come true.

MP3

For more information on the iPod® adapter, please see page 11.

Optional CD-SR100

Real aluminium front panel with bright white dot-matrix display

Rotary functionality control

PERFECTION IN FORM, FUNCTION AND FUNCTIONALITY

Understated elegance, the DEH-P77MP's real aluminium front panel is complemented by a bright white dot-matrix display for superb visibility. Its straightforward user interface and minimalist buttons offer superior functionality. The DEH-P77MP's attractive yet practical dual rotary design is simple and clear. Just push and turn the ergonomically designed function controller to access all functions. You'll appreciate the quality feel of the volume control. Not to mention the Wired Remote Input, which allows the DEH-P77MP to be used with the original remote control of many cars — when connected via an optional interface kit*.

*** For more information, see accessories p. 19.**

PROFESSIONAL-QUALITY 1-BIT BURR-BROWN D/A CONVERTERS

With 24-bit resolution 1-bit Burr-Brown D/A converters built into the DEH-P77MP, you'll be overcome by superbly smooth, high fidelity sound. Responsible for a very wide dynamic range as well as an excellent signal-to-noise ratio, these components really set a quality standard. Other sound enhancing elements in the design include high-quality audio capacitors and a very low noise design.

For full features, please see page 29.

DEH-P7700MP

WMA/MP3/WAV/AAC/CD RDS TUNER

MP3

* For more information on the iPod® adapter, please see page 11.

** Requires an optional interface. For more information, please see page 19.

AAC: AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-4. iTunes® AAC Playback: AAC players can decode only AAC files ripped and encoded using iTunes®; they cannot decode AAC DRM files downloaded from iTunes music store®. iTunes is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

NEW

The blue hue on the OEL display, combined with the green or red front panel illumination, says it all: pure quality. Your sound hugs every curve, thanks to the advanced EEQ+ with LPF and HPF precision tuning. Is multimedia expansion on your mind? The answer is the IP-Bus control, a simple peripheral connection for a DVD player, DAB tuner, multi-CD changer or even an iPod® (with Pioneer's iPod® adapter*). One final practical feature, the Sub-Display Output** lets you show basic tuner information on your car's digital display.

Standard

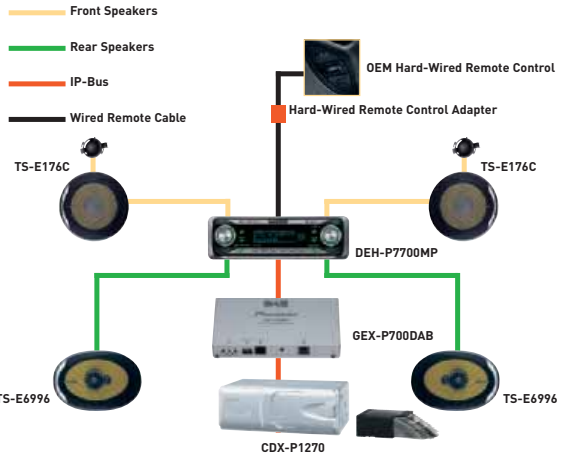
HOOK UP EXACTLY WHAT YOU WANT

The DEH-P7700MP, as well as all Pioneer headunits with IP-Bus, offers a wide range of connection possibilities to make this top-notch in-car audio experience even more impressive. The IP-Bus connection lets you control multiple sources, like a multi-CD changer, DAB tuner or an iPod®*, from your headunit. Hook up four speakers for premium audio performance, thanks to the MOSFET 50 W x 4 amplifier, or alternatively use the RCA pre-outs to connect external amplifiers for even more powerful sound. For that final touch, with the DEH-P7700MP's Wired Remote Input, you can control your headunit by using the car's integrated steering wheel remote control**.

* Requires an optional adapter. For more information, please see page 11.

** With optional hard-wired remote control adapter (see page 19).

SYSTEM DIAGRAM



The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

DEH-P6700MP

WMA/MP3/WAV/CD RDS TUNER

MP3

NEW

Express your true individuality with this shade-shifting CD tuner. The entire headunit display can match your dashboard — or your mood — from red-hot to soulful blue. Just select one of ten stunning colours or the festive 'Rainbow Mode'. Brimming with touch-of-a-button technology, like precision EEQ+ with EQ-EX, you'll swear you've never heard sound this exciting. More sonic freedom? Pioneer added SFEQ for independent bass and treble control, and there's no need for an extra amp with Direct Sub Drive's immediate booming bass.

For more information on the iPod® adapter, please see page 11.

Standard

A DISPLAY THAT SHOWS YOUR TRUE COLOUR

Now you can match your display colour to suit your dashboard, your mood, your passengers... It's all possible with the DEH-P6700MP's Dual Zone Colour Combination. Just touch a button and you can independently change the colour of the display and the buttons to one of the 10 vibrant colours. This makes 100 display and button colour combinations for you to choose from, every day, every hour or every song. Still undecided? Then let the 'Rainbow Mode' automatically turn your headunit into a multi-colour light extravaganza.

SOME EXAMPLES

Skyblue display and skyblue buttons

Red display and white buttons

White display and red buttons

Orange display and orange buttons

Deep blue display and red buttons

Amber display and amber buttons

For full features, please see page 29.

DEH-P5700MP

WMA/MP3/WAV/CD RDS TUNER

NEW

Whether you lean towards pure radio entertainment or full-blown multimedia, this CD RDS tuner takes you beyond sonic nirvana. Connect extra amps and speakers to the 2 RCA pre-outs and create the in-car sound system that truly rocks. Your DVD player, DAB tuner or multi-CD player hooks up to the IP-Bus control. As up-to-date as you are, you will want to connect your iPod® through the optional adapter* to enjoy your digital music collection. The Sub-Display Output** lets you confirm basic tuner info on your existing car display.

MP3

*** For more information on the iPod® adapter, please see page 11.**

**** Requires an optional interface. For more information, please see page 19.**

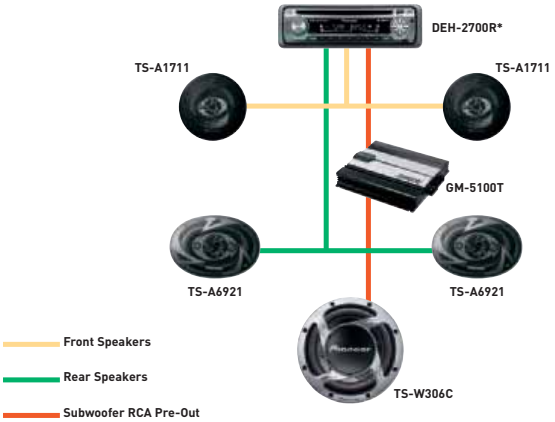
Also available as DEH-P5730MP with red button illumination.

Optional CD-SR100

EXPAND YOUR SYSTEM

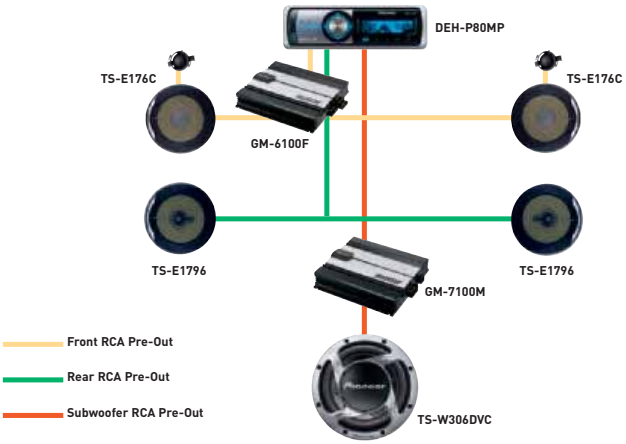
With the RCA pre-outs, you can easily add extra amplifiers and speakers to your in-car sound system. Whatever set-up you select, you are certain to enjoy crystal-clear, distortion-free sound output. Pioneer's CD RDS tuners can feature up to 3 RCA pre-outs. In the 1 RCA system set-up the amplifier drives a subwoofer for increased power handling and booming bass. The front and rear speakers are hooked up directly to the headunit. Headunits with 2 or 3 pre-outs enable further expansion of the in-car system by adding one or more external amplifiers and extra speakers. As shown in the 3 RCA system set-up, this sound system is customised with an external 4-channel amplifier to drive the front and rear speakers and a mono-channel amplifier to drive the subwoofer.

1 RCA SYSTEM DIAGRAM



*** Not available with KEH-1032 and KEH-1033.**

3 RCA SYSTEM DIAGRAM



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For full features, please see page 29.

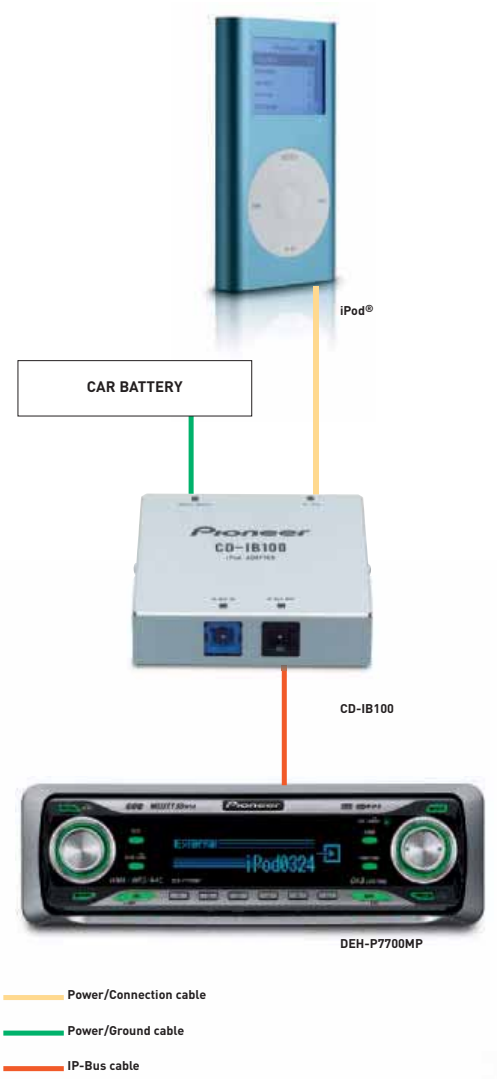
CD-IB100

iPod® ADAPTER

Ready for iPod

NEW Tap into the power of portable digital music with the iPod® adapter. Start with any Pioneer headunit equipped with an IP-Bus connection and use the optional adapter CD-IB100 to link your iPod to your sound system for — literally — days of your favourite digital music. Pepping up a cross-country trip or spicing up your daily commute, the Pioneer iPod® adapter also does double duty as an iPod charger.

SYSTEM SET-UP



SMART MOVE: YOUR iPOD IN YOUR AUTOMOBILE? JUST ASK PIONEER.

Free to drive:
Simply connect your iPod® to the Pioneer iPod® adapter for distraction-free, hands-on-the-wheel safe driving. Your iPod completely integrates into your familiar sound system. Control it just like you normally handle your in-car audio: right on your headunit, using the remote, or best yet, using your steering wheel remote control.

Free to choose:
Make the call on the in-car positioning of your iPod®, once you've hooked up. Anywhere is practically possible: conveniently at your side in the console or on the passenger seat, on the dashboard, or safely tucked away in the glove compartment. This way you can easily decide whether you want your iPod close at hand, or well out of sight of thieves.

Free to listen:
Just a quick glance at your headunit says it all: song, artist, album and more. Via the headunit or remote, you scan the music you want by playlist, genre, artist, album or simply search for a specific song.

Bet you never thought a Pioneer headunit could be this cool? Clearly, it is time to indulge your digital lifestyle and enjoy thousands of songs on your iPod® without a single tad of quality loss— all thanks to your Pioneer iPod® adapter.

Note: iPod is for legal or rightholder-authorized copying only. Don't steal music. iPod is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.

Note: iPod® capacity depends on model type and compression format.

Note: Pioneer's CD-IB100 iPod® adapter is not compatible with first generation iPods.

DEH-4700MP

WMA/MP3/WAV/CD RDS TUNER

MP3

NEW

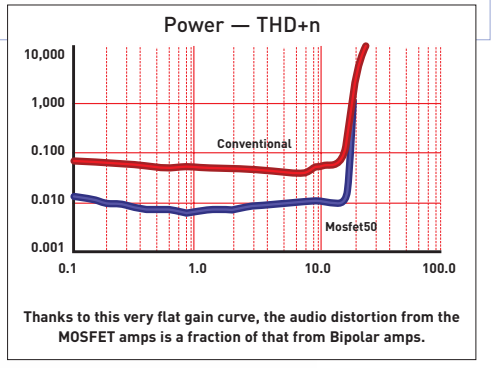
This savvy, play-it-all CD RDS tuner with a crystal-clear digital D4Q AM/FM tuner lets you lock right into your favourite station. This system comes complete with EEQ, with 5 preset equalisation curves, to adjust the sound to your taste. You'll love the power-rumble of the MOSFET 50 W x 4 amplifier, while BMX technology takes all the digitised flatness out of favourite MP3 and WMA files for a pure and natural listening experience.

Optional CD-SR100

Also available as DEH-4700MPB
with blue colour display and red button illumination.

UNRIVALLED SOUND QUALITY

MOSFET amplifiers are recognised by audiophiles as offering unsurpassed audio quality. MOSFET amplifiers offer extremely high linearity and practically eliminate distortion, resulting in a second-to-none performance. Pioneer's MOSFET 50 offers this unrivalled level of performance, while pumping out an impressive 4 x 50 W of power.



Thanks to this very flat gain curve, the audio distortion from the MOSFET amps is a fraction of that from Bipolar amps.

For full features, please see page 29.

DEH-3700MP / DEH-3730MP

WMA/MP3/WAV/CD RDS TUNER

NEW If technology is your calling, you'll love the fully-loaded DEH-3700MP. It plays CD-R and CD-RW as well as popular digital formats like MP3, WMA and WAV. Even these digital tunes will impress your ears thanks to BMX technology, which revives flat-sounding compressed audio files. The 45 W x 4 output power will satisfy your thirst for power while aesthetic understatements, like the pure white display with CD Text, complete the total image.

DEH-3700MP

DEH-3730MP

MP3 MORE MUSIC WITH MP3

With MP3, take more of your favourite music on the road — without the hassle of a pile of discs. With highly compressed MP3 files, one disc equals up to 10 music CDs. Organise your favourite songs into as many as 8 subfolders. MP3 plays the tracks in a more logical order, folder-by-folder. Additionally, file navigation makes it easier to find a specific track. Moreover, Pioneer MP3 players support multi-session discs, mixed-mode CDs with ROM and audio files on the same disc, and CDs burned on Windows XP's built-in CD burner software. All Pioneer MP3 players are compatible with ISO9660 Level 1 & 2 and Romeo & Joliet file systems*.

WIN-WIN AUDIO WITH WMA (Windows Media™ Audio)

WMA, the music compression format developed by Microsoft, minimises the file size of your original audio track while maintaining good audio quality even at rates as low as 64 Kb/sec. WMA allows you to put more files of a certain sound quality on a CD, or to put the same number of files, but of a higher sound quality compared to MP3. Pioneer's WMA products support all standard compression rates (48 Kbps ~ 192 Kbps) as well as the WMA text format*.
All of Pioneer's WMA CD RDS tuners support the latest WMA Ver.9**, which improves sound quality by 20 % compared to WMA Ver.8. Compatible with files recorded with WMA Ver.8, it supports the new VBR (Variable Bit Rate) format of WMA Ver.9.

Note: CD-R and CD-RW discs should be finalised before use.
*** Pioneer WMA/MP3 players do not support files written in Packet mode (UDF format). ** They do not support WMA 9 Professional (5.1-ch), WMA 9 Lossless and WMA Voice.**

SAVE YOUR CAR'S BATTERY POWER

When you turn off your car stereo and even your engine, every headunit still consumes a small amount of power. Now, some of Pioneer's new headunits* automatically switch into Power Save Mode one minute after turning them off, ensuring that the power consumption in standby mode is lower than 2 mA.

*** DEH-4700MP, DEH-4700MPB, DEH-3700MP, DEH-3730MP, DEH-2700R, DEH-2700RB, DEH-1700R and DEH-1730R.**

DEH-2700R

CD RDS TUNER

NEW

Modern looks with a technological slant, this CD RDS tuner with D4Q digital AM/FM receives radio signals loud and clear on even the most crowded metropolitan airwaves. The built-in MOSFET 50 W x 4 power amplifier pumps up your sound to solid urban levels while EEQ lets you personalise your sound curves. An added convenience is the Hard Wired Remote* so you can control your headunit from your existing steering wheel remote control.

*** Requires an optional adapter. For more information, please see page 19.**

Also available as DEH-2700RB with blue colour display and red button illumination.

TUNE INTO CLEAR RECEPTION — D4Q DIGITAL AM/FM TUNER

Enjoy interference-free listening with D4Q. This Pioneer digital processing technique improves audio performance and receiver selectivity. **Highly sensitive**, D4Q widens your reception area making it ideal for driving outside cities. Additionally, D4Q is **resistant to multipath noise**. Its fast operation eliminates the effects of reflected radio signals. D4Q is also great in areas with numerous adjoining stations as its sophisticated digital control system **eliminates interference** from adjacent channels. **Smooth RDS network following** means you'll always be tuned to the best frequency. With D4Q, you can be sure of optimum tuner reception and a high level of audio performance for pure listening pleasure.

YOUR SOUND AT THE TOUCH OF A BUTTON

EEQ is handy technology that helps you effortlessly customise your sound like never before. Just select the EQ button for the optimal sound setting in your car. EEQ includes a host of audio features: 5 factory preset equalisation curves, 3-band parametric or programmable equaliser, 3-mode loudness and/or 3-mode front image enhancer.

The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

DEH-1700R / DEH-1730R

CD RDS TUNER

NEW

This affordable CD RDS tuner fulfils an essential requirement: practical and powerful sound. Playing CD-R and CD-RW, its 45 W x 4 output power translates to strong, accurate audio. You can expand your sound system by connecting an additional amp to the RCA pre-out.

DEH-1700R

DEH-1730R

FH-P4100R

DOUBLE-DIN CASSETTE/CD RDS TUNER

If you are looking for great sound combined with a perfect double-DIN fit, you will be stunned by the performance of Pioneer's FH-P4100R Cassette/CD RDS tuner. This headunit has built-in full audio DSP with a 9-band graphic equaliser for truly optimum sound. The buttons on the unit are illuminated in red to match VW cars with a 2-DIN provision. Added benefit: a detachable front panel for anti-theft security.

Please note that special double-DIN mounting kits are available for several car models: ADT-OP150 for Opel, ADT-MB140 for Mercedes and ADT-VA132 for Volkswagen.

For more information on the iPod® adapter, please see page 11.

Optional CD-SR100

For full features, please see pages 30-31.

KEH-P7020R

CASSETTE RDS TUNER

This cassette tuner sets the trends. Its OEL display informs and entertains with a spectrum analyser and left/right channel level meter. It features EEQ Plus and 3 RCA pre-outs so that you can really design your sound your way. Dolby B masks cassette background hiss. The ASL (Automatic Sound Leveliser) adjusts the volume to compensate for exterior noise so you can enjoy your favourite tunes at a constant volume. Its standard steering wheel remote control system guarantees safe and comfortable driving.

Standard

KEH-P6020R

CASSETTE RDS TUNER

Loaded with technology, this cassette tuner lets you create your dream sound. The MOSFET 50 W x 4 amp creates powerful distortion-free sound while EEQ Plus enables additional tuning for exceptionally customised sound. Its 2 RCA pre-outs let you take your sound system design even further with separate amplification. SFEQ gives you independent control over your front and rear bass and treble settings for precise sound staging.

Optional CD-SR100

Also available as KEH-P6020RB with blue-colour display and red button illumination.

The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

KEH-P4020R

CASSETTE RDS TUNER

You get fabulous sound quality with this cassette tuner, complete with EEQ and a built-in MOSFET 50 W x 4 power amp. The visual impact of this headunit promises perfection with its multi-colour LCD display and full flap front panel design.

Also available as KEH-P4023R with red button illumination.

KEH-P2030R

CASSETTE RDS TUNER

For winning sound all the time, this cassette tuner is equipped with reliable and high performance functions like a high-speed intelligent RDS tuner and a 4 x 40 W amplifier. If you want to expand your system — the IP-Bus ensures perfect control of your multi-CD player, and the RCA pre-out allows the addition of an amplifier.

Also available as KEH-P2033R with red illumination.

KEH-1032

CASSETTE TUNER

This basic cassette unit is fitted with Pioneer technology like BTB (Bass Treble Boost) sound tuning for powerful Bass and Treble settings. You're guaranteed high sound quality with the 4 x 40 W amplifier, and the SLA (Source Level Adjuster) keeps volume for all audio sources at the same level.

Also available as KEH-1033 with red illumination.

For full features, please see page 31.

MCD5700CD

CD RDS TUNER AND MULTI-CD SYSTEM

MP3

NEW

One-stop luxurious sound and maxed-out playback is what you'll get with Pioneer's install-in-a-snap multi-CD packages — either a cassette or CD headunit teamed up with a 6-disc multi-CD unit. They're loaded with the right stuff too. The featured package, MCD5700CD, includes a CD RDS tuner that plays it all — hands down — including CD-R, CD-RW, MP3, WMA and WAV. Not to mention a powerful MOSFET 50 W x 4 amplifier and EEQ+ precision tuning. Go bass ballistic by connecting additional amplifiers to 2 RCA pre-outs. The trendsetters out there will immediately hook up an iconic iPod®* to the IP-Bus for that next road trip.

* Requires optional adapter (for more information, please refer to p. 11).

MULTI-CD PACKAGES OVERVIEW*	MCD5700CD	MCD5730CD	MCD6020RDS	MCD6020RDS-B	MCD4020RDS	MCD4023RDS	MCD2030RDS	MCD2033RDS
Headunit	DEH-P5700MP	DEH-P5730MP	KEH-P6020R	KEH-P6020RB	KEH-P4020R	KEH-P4023R	KEH-P2030R	KEH-P2033R
Multi-CD changer	CDX-P670	CDX-P670	CDX-P670	CDX-P670	CDX-P670	CDX-P670	CDX-P670	CDX-P670
Optional CD-SR100	•	•	•	•				

* Not all packages are available in each country.

CDX-P1270

12-DISC MULTI-CD PLAYER

CDX-P670

6-DISC MULTI-CD PLAYER

Both the 6-disc and 12-disc multi-CD players incorporate the latest technology — like Skip Play for CD-R/RW discs — to bring you superb performance wherever you drive. On top of that, you will enjoy visual confirmation of CD information on your headunit with the CD Text feature.

CDX-FM657

UNIVERSAL MULTI-CD PLAYER

For drivers who wish to enjoy the clarity of CD sound, adding the CDX-FM657 is an easy and highly economical way to create an instant 6-disc system in a car already equipped with a high-quality FM stereo tuner (preferably a Pioneer headunit). The CDX-FM657 can be used with any FM tuner, although the CD sound quality will be determined by the quality of the FM tuner to which it is connected. This multi-CD player is a high-value, very affordable route to digital sound pleasure.

The key features are indicated by means of coloured icons. Step-up features versus a lower model are highlighted in red. For an explanation on icons, see page 28.

The right accessory can upgrade your in-car entertainment system from 'nice' to 'genius'. Fit your headunit perfectly in your dash, integrate with your car's own display and remote control, or expand playback for your existing system. The wide selection of product and car-specific Pioneer accessories means your entire in-car entertainment will be exactly as you imagined.

STEERING WHEEL REMOTE CONTROL ADAPTERS

Many cars come equipped with a steering wheel mounted remote control. Your remote control ready Pioneer headunit works with existing built-in remote control units, thanks to a remote control adapter kit.

For remote control ready headunits, an **infrared adapter** is available. Alternatively, for Pioneer headunits with a wired remote input, a mini-jack input in the rear, the **hard-wired remote control adapter** connects the remote to the headunit. Several versions of adapters are available to suit original remote control units in most cars.*

CD CHANGER INTERFACE

Want to add a multi-CD changer to your existing system? This interface directly connects your original headunit with a Pioneer multi-CD changer. It allows you to search for tracks or select another disc using the headunit's existing buttons. It reproduces the CD sound via the car's original sound system as well.*

FASCIA PLATES

In many new cars, the installation area is larger than the headunit. In this case, an adapter or fascia plate is required for a proper fit. Fascia plates can be used to adapt a one-DIN radio into a non-DIN location.*

SUB-DISPLAY OUTPUT

Now you can connect your Pioneer CD tuner to your car's existing digital display, thanks to the sub-display output feature. Basic tuner information — such as frequency and track numbers — is output through the IP-Bus connection via an optional interface. This practical feature is found on the DEH-P9600MP, DEH-P8600MP, DEH-P80MP, DEH-P7700MP, DEH-P6700MP, DEH-P5700MP, and DEH-P5730MP.*

*** If you would like more information about which accessory fits your car needs, please contact your local dealer or visit the Pioneer website at**

www.pioneer-eur.com

PRS — PIONEER REFERENCE SERIES

Do you accept only the finest? Opt for the extraordinary. Get sound that stands out from the crowd. Sound that even the pros will envy — crystal-clear, pure and beautiful. The new Pioneer Reference Series (PRS) continues the award-winning legacy of PRS past. It's the only one for Europe's top sound competitors, and for those that simply demand the best.

DEX-P90RS

COMPONENT CD RDS TUNER

NEW

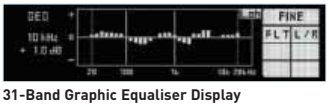
When prestigious design merges with technical élan, the DEX-P90RS emerges on top — the ultimate in pure, natural sound. The striking-white OEL display and aluminium front make a certain style statement on the outside, while on the inside, 16-bit digital CD data is directly transferred by top-of-the-line 24-bit multi-bit D/A converters, with minimum distortion and the natural sound expression intact. Audiophiles will appreciate the high-quality parts, ultra-precise mechanisms and high-performance construction. Pair up optically with the DEQ-P90 for an unrivalled audio system, with DSP and network functions. Three RCA pre-outs allow you to expand your system further. An absolute ideal, this thoroughly engineered component will redefine sound perfection.

DEQ-P90

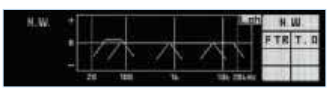
DIGITAL PREAMP/EQUALISER

NEW

Designed to enhance the DEX-P90RS to perfection with every sonic detail, this digital signal processor balances incoming and outgoing signals to match the interior acoustics of your particular automobile. With complete control of the signal processing and networking, you can optimise the parametric equaliser and Sound Field Control to create your own preferred sound field.



31-Band Graphic Equaliser Display

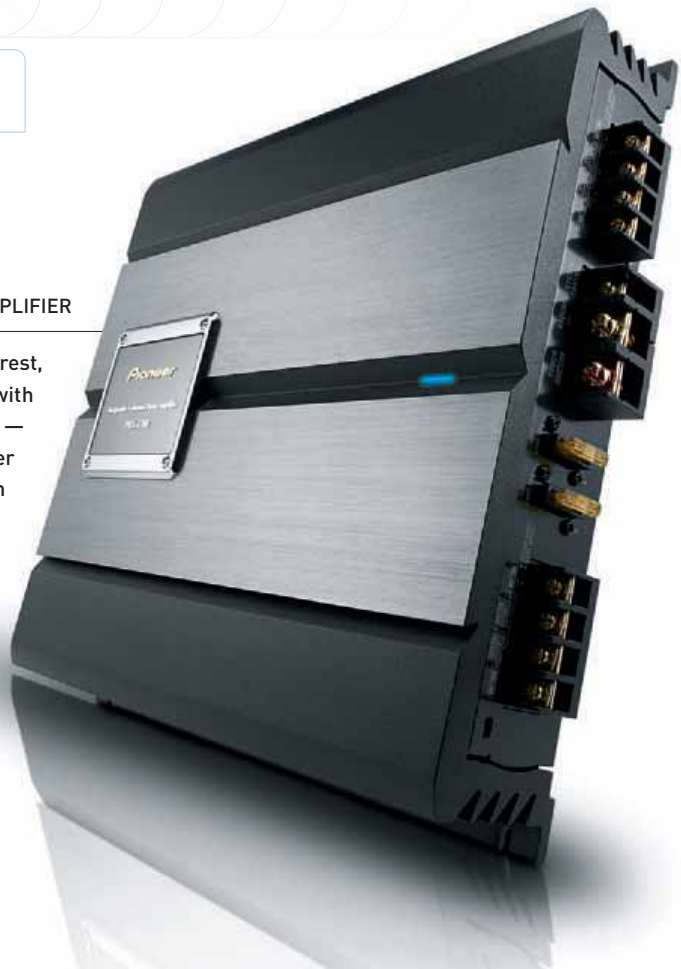


Crossover Network Display

FULL DIGITAL SYSTEM

Sonic excellence is redefined with Pioneer's high-end audio system, the DEX-P90RS component tuner and DEQ-P90 digital preamp/equaliser. Pioneer hi-bit technology maintains pure audio quality during digital processing. The DEX-P90RS has an optical digital input for connecting a digital source, and optical digital outputs for connecting to the DEQ-P90 off-board digital network. This network features 3 ultra-precise 51-bit Digital Signal Processors to implement the 31-band graphic equalisation with independent Left/Right control, Time Alignment and the 4-way digital network. Both units are loaded with Burr-Brown 24-bit multi-bit DACs — the best of the best! The final result is unmatched sonic clarity.

For an explanation on icons, see page 28. For full features, please see page 30.



NEW

4 x 100 W (2 x 300 W) Max.

PRS-A700

4-CHANNEL BRIDGEABLE POWER AMPLIFIER

Engineered with excellence, PRS amps are designed to deliver the purest, most powerful, distortion-free sound possible. They're loaded with audiophile grade components and high-performance technologies — like separate left and right channels, independent left and right power supplies and gain control. This means that these amps operate with maximum separation and control, and minimum distortion. In short, the highest possible sound quality. These are the ultimate amps to drive a high-end system with utmost intensity and clarity. Choose PRS for an unparalleled listening experience.

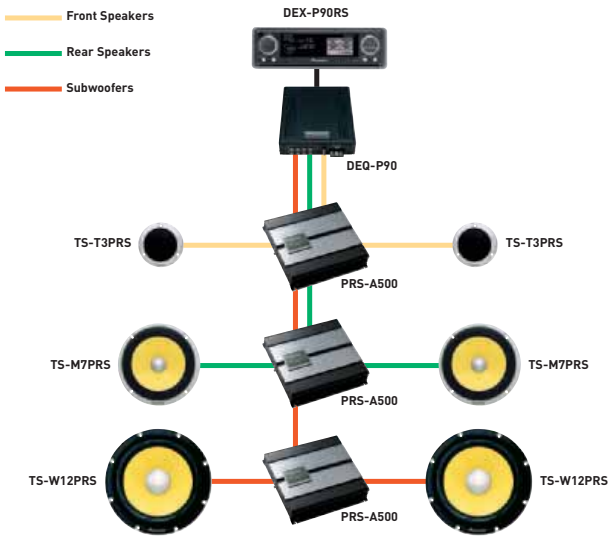
PRS-A500

2-CHANNEL BRIDGEABLE POWER AMPLIFIER

NEW

2 x 200 W (1 x 600 W) Max.

SYSTEM SET-UP



For full features and specifications, please see page 30.

Be loud, be proud

Wanna push power to the limit? Push it pure with Pioneer. The new amps are tougher and cleaner than anything you've seen before. Add Pioneer subs and forget about just the neighbours hearing you loud and clear, the whole town will be listening. With Pioneer amps, you lead where others will want to follow.

PRS-D5000SPL

COMPETITION CLASS SPL CLASS-D AMPLIFIER

NEW

1 x 3000 W (2 Ω)/1 x 1500 W (4 Ω) Max.

Take your in-car sound to the edge with this Class-D SPL amp. Designed to match Pioneer first-class SPL subwoofers, it puts out a razor-hot 3000 W of max. output power. Drives subs with utmost sonic purity. To create a full-on sound system, add on — and control — additional amplifiers. Thanks to Pioneer's exclusive MASS (Multi Amplifier Synchronization System) technology, it couldn't be easier. With all this earth-shattering power, you'll want to be certain of reliability. Covered. This amp is outfitted with an Independent Rail Regulating Power (IRRP) supply and a new Low Current Density (LCD) design. Highly efficient Class-D technology is part of the construction too. Less current for less heat. That means no distortion, so the sound always stays pure, crisp and clean. With these designs, you can be sure of top-notch, competition-worthy performance. No matter how hard you drive it.

SYSTEM SET-UP

MORE RELIABILITY WITH DYNAMIC AMPLIFIER PROTECTION (DAP)

The PRS-D5000SPL features a new protection circuitry, which adapts to the output signal level. So the protection level matches the operating condition of the moment. Extra reliability, even at higher output.

EASY AMP ADJUSTMENT WITH MASS (Multi Amplifier Synchronization System)

If you want to create a multi-amp system, you'll want Pioneer's exclusive Multi Amplifier Synchronization System (MASS). It makes controlling amp settings easier than ever before. The additional amplifiers are connected to the 'master' amplifier in a cascade configuration and set to 'SYNCINV/SYNC*'. Then if setting adjustments are made to the 'master' amplifier, all the other connected amps' settings are changed as well. Two set-up modes are possible: Quick Set-up and Advanced Set-up.

*** Depending on configuration: SYNCINV for 4 Ω bridged set-ups.**

For full features and specifications, please see page 31.

Give into your deepest desire for power. Work it out how you want with the bridgeable amps. Drive 2 or 4 speaker channels or multiple subwoofer leads. Just consider the consequences whatever you do: pure and clean, distortion-free power. They ignite your system, but keep the heat under wraps. For an extra punch, there's the GM-7100M mono amp complete with a remote for extra bass on demand. Techno wonders, these amps will rumble you to the core.

GM-7100M
MONO CHANNEL AMPLIFIER

NEW

1 x 800 W (2 Ω)/1 x 500 W (4 Ω) Max.

Standard
Remote Control

GM-6100F
4-CHANNEL BRIDGEABLE AMPLIFIER

NEW

4 x 120 W (4 Ω)/2 x 300 W (4 Ω) Max.

GM-5100T
2-CHANNEL BRIDGEABLE AMPLIFIER

NEW

2 x 250 W (4 Ω)/1 x 760 W (4 Ω) Max.

GM-3100T
2-CHANNEL BRIDGEABLE AMPLIFIER

NEW

2 x 120 W (4 Ω)/1 x 300 W (4 Ω) Max.

This catalogue only features the amplifiers and subwoofers that are new for 2005.
Visit the Pioneer website or your local car audio dealer to discover the complete and extensive line-up of Pioneer products.

AMPS 'N SUBS

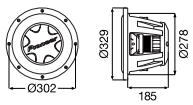
Get ready to rumble

Turn it up and tear it out. No matter how you drive it, Pioneer subs are built to be pushed hard. Solid and tough, they take it to the limit, and won't fail you. Paired up with Pioneer amps, your system will rumble and roar with ferocious clarity. If you want the best in bass, get it from the champion.

Pioneer's champion-level SPL subs pack power and punch — with top output power of 3000 W and 2500 W respectively, these subwoofers are the perfect match for the Pioneer Class-D amp. High-tech materials like the newly designed voice-coil ensure the intensity you need for your power boost. Now you can push your subwoofer to the limit with confidence: increased heat-resistance and a reinforced suspension structure, posting patent-pending technology, are backed up by a powerful double-stacked magnets motor structure for a guaranteed reliable performance. Enjoy freedom of choice in installation, with a more flexible enclosure volume. This system will justify your pride.

TS-W3004SPL

30 CM COMPETITION CLASS SPL DUAL VOICE COIL SUBWOOFER



NEW

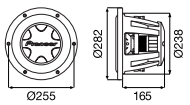
3000 W Max.

For enclosure use

INJECTION MOLDED CONE™

TS-W2504SPL

25 CM COMPETITION CLASS SPL DUAL VOICE COIL SUBWOOFER



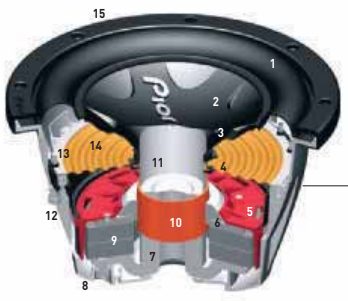
NEW

2500 W Max.

For enclosure use

INJECTION MOLDED CONE™

CUTVIEW TS-W3004SPL



1. Wide-roll, 3-layer fibre woven radial surround*
2. Double cone reinforcement nodes*
3. Interlaced Glass/Carbon fibre reinforced IMPP double cone*
4. Massive double damper ring*
5. Aluminium die-cast heat sink*
6. Thick top plate
7. Extended and vented pole yoke
8. Bottom hold design aluminium die-cast chassis
9. Powerful double-stacked magnets
10. High-power handling ceramic-coated voice coil wire
11. Titanium voice coil bobbin
12. Spring compression binding terminals
13. Steel damper ring mounting plate
14. Super Aramid fibre damper*
15. Rubber gasket

*** Patent pending**

SPECIFICATIONS	TS-W3004SPL	TS-W2504SPL
Ohm rating	2 or 8 Ω	2 or 8 Ω
Frequency Response	18 — 700 Hz	18 — 1000 Hz
Lowest Resonance Frequency (Fs)	26.2 Hz	35.6 Hz
Qts	0.32	0.48
Vas (Litres)	37.50	14.60
Recommended Sealed Enclosure (Litres)	24 — 49.6	18.4 — 35.4
Sensitivity (1W/1m)	89 dB	87 dB
Nominal Input Power	1000 W	800 W

Sublime power is within your grasp — with Pioneer a-Ccelerate subwoofers. The redesigned and improved cone, cast in composite IMPP using interlaced Aramid fibre, features a patent-pending technology, to bring you all the punch and clarity you'll ever need. Total precision can be yours, even at kicking volumes. Build your high-performance system with a larger or smaller enclosure volume — with a-Ccelerate's increased flexibility, the choice is yours. Connect thick cables for that power boost you've always wanted — a totally safe operation, with Pioneer's specially designed magnet cover and push terminals. Pioneer spells pure power, and sonic satisfaction.

TS-W306DVC

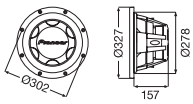
30-CM DUAL VOICE COIL SUBWOOFER

NEW

1000 W Max.

For enclosure use

INJECTION MOLDED CONE™



TS-W306C

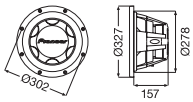
30-CM SUBWOOFER

NEW

1000 W Max.

For enclosure use

INJECTION MOLDED CONE™



TS-W256DVC

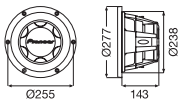
25-CM DUAL VOICE COIL SUBWOOFER

NEW

800 W Max.

For enclosure use

INJECTION MOLDED CONE™



TS-W256C

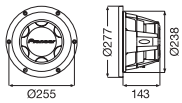
25-CM SUBWOOFER

NEW

800 W Max.

For enclosure use

INJECTION MOLDED CONE™



UD-G306

SPOKE GRILLE FOR TS-W3004SPL, TS-W306DVC AND TS-W306C

NEW

UD-G256

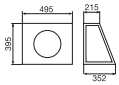
SPOKE GRILLE FOR TS-W2504SPL, TS-W256DVC AND TS-W256C

NEW

UD-W301S

CUSTOM ENCLOSURE BOX FOR TS-W3004SPL, TS-W306DVC AND TS-W306C

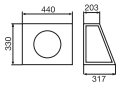
NEW



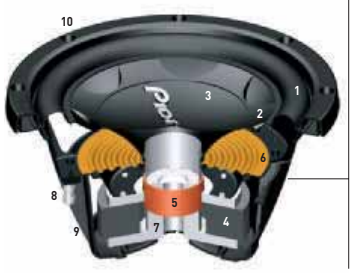
UD-W251S

CUSTOM ENCLOSURE BOX FOR TS-W2504SPL, TS-W256DVC AND TS-W256C

NEW



CUTVIEW TS-W306DVC



1. Wide-roll, 3-layer fibre woven radial surround*
2. Composite IMPP cone using interlaced Aramid fibre with reinforcement arcs*
3. Integrated inverted dust cap
4. Dual mass high power magnet
5. Copper round wire
6. Conex damper
7. Extended and vented pole yoke
8. Spring compression binding terminals
9. Removable magnet cover
10. Moulded gasket

*** Patent pending**

SPECIFICATIONS	TS-W306DVC	TS-W306C	TS-W256DVC	TS-W256C
Ohm rating	2 or 8 Ω	4 Ω	2 or 8 Ω	4 Ω
Frequency Response	18 — 5000 Hz	18 — 5000 Hz	18 — 600 Hz	18 — 600 Hz
Lowest Resonance Frequency (Fs)	32.9 Hz	32.6 Hz	35.4 Hz	35.6 Hz
Qts	0.48	0.42	0.5	0.44
Vas (Litres)	51.8	55.6	27.0	25.2
Recommended Sealed Enclosure (Litres)	24 — 49.6	24 — 49.6	18.4 — 35.4	18.4 — 35.4
Sensitivity (1W/1m)	89 dB	89 dB	87 dB	87 dB
Nominal Input Power	400 W	400 W	350 W	350 W

This catalogue only features the amplifiers and subwoofers that are new for 2005.
Visit the Pioneer website or your local car audio dealer to discover the complete and extensive line-up of Pioneer products.

Fire it up

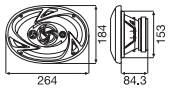
Whether you're looking cool upfront or hanging out in the back, Pioneer a-Ccelerate speakers define your style and redefine 'loud'. They're tough, they're street-smart and they've got the power to really kick sound. They've even got your size. Add an a-Ccelerate subwoofer for a true sound explosion. They're tough enough, are you?

TS-A6921

6" x 9" 4-WAY SPEAKERS

NEW

380 W Max.

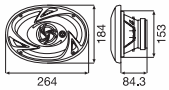


TS-A6911

6" x 9" 3-WAY SPEAKERS

NEW

330 W Max.

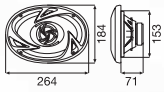


TS-A6901

6" x 9" 2-WAY SPEAKERS

NEW

240 W Max.



COMPOSITE IMPP CONE USING INTERLACED ARAMID FIBRE

For extremely high performance, the new a-Ccelerate IMPP cones are reinforced with interlaced Aramid fibre. This creates a highly dense internal structure, with additional strength and rigidity, for more resiliency during high power output and booming bass. The final result is a rich and full-bodied sound, which is transferred quickly with character and midrange depth. Never before has an IMPP cone achieved such remarkable sound!

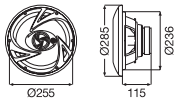
A RANGE OF SPEAKERS FOR EVERY NEED

Whatever your needs, Pioneer has a wide variety of speaker ranges available. Check with your local car audio dealer or the Pioneer website to discover the full selection. No matter which Pioneer speaker you choose, you can't lose.

TS-A2511
25 CM 3-WAY SPEAKERS

NEW
400 W Max.

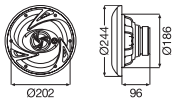
INJECTION MOLDED CONE™



TS-A2011
20 CM 3-WAY SPEAKERS

NEW
350 W Max.

INJECTION MOLDED CONE™



TS-A1711
17 CM 3-WAY SPEAKERS

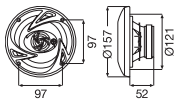
NEW
220 W Max.

INJECTION MOLDED CONE™

TS-A1311
13 CM 3-WAY SPEAKERS

NEW
150 W Max.

INJECTION MOLDED CONE™



SPECIFICATIONS	TS-A6921	TS-A6911	TS-A6901	TS-A2511	TS-A2011	TS-A1711	TS-A1311
Frequency Response	25 — 32,000 Hz	25 — 30,000 Hz	28 — 26,000 Hz	25 — 30,000 Hz	25 — 30,000 Hz	28 — 30,000 Hz	40 — 30,000 Hz
Sensitivity (1 W/1 m)	93 dB	93 dB	92 dB	93 dB	93 dB	92 dB	91 dB
Nominal Input Power	80 W	80 W	40 W	100 W	90 W	50 W	35 W

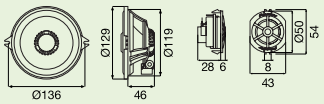
Q-LEVEL

Tuned exclusively for Renault, the TS-Q131C speaker system is a styling slim 13 cm separate 2-way speaker system. A step-up from the pre-installed speakers in your Renault, such as Megane, Scenic, Laguna, Espace, Velsatis, etc., every in-car audiophile will enjoy the accurately vivid sound emitting from the KEVLAR® brand fibre woofer cone complemented by the smooth natural overtones of the soft-dome tweeter. You'll never give a second thought to why you upgraded.

TS-Q131C
13 CM SEPARATE 2-WAY SPEAKER SYSTEM

NEW
180 W Max.

DuPont™ KEVLAR®



RENAULT *PERFECT-FIT*

SPECIFICATIONS	TS-Q131C
Frequency Response	40 — 28,000 Hz
Sensitivity (1 W/1 m)	89 dB
Nominal Input Power	35 W

This catalogue only features the speakers that are new for 2005.
Visit the Pioneer website or your local car audio dealer to discover the complete and extensive line-up of Pioneer products.

GLOSSARY / FEATURE & SPECIFICATION CHARTS

Headunits — Sources

Radio Text: By pressing the Radio Text button, text messages sent as RDS data are received. These messages scroll across the screen for convenient viewing, and can be stored in memory for review.

RDS: Pioneer has incorporated the "Non Interruption Philosophy" into the "Intelligent RDS Tuner" for improved network following (NF). Thanks to the sophisticated algorithms, the different programme alternative frequencies are screened out and continuous, uninterrupted listening pleasure is achieved.

CD Text: Use the CD Text feature to view text information from a music compact disc (which has been encoded with CD Text data). By pushing the display key, you can scroll between disc titles, track titles and artist name.

Disc Title Memory: Enables you to programme an up to 10-digit descriptive title to be displayed when that CD is selected. Up to 48 titles may be entered with many Pioneer Single-CD units and up to 100 titles with Pioneer Multi-CD Players.

WAV: WAV files are used to store high-quality, uncompressed audio data of CD-quality (44.1 KHz/16-bit). This file format requires a huge amount of memory — roughly 10 MB per minute of music. Compressed audio files such as MP3 and WMA require significantly less memory, but reproduce poorer quality sound. Audio CDs are automatically saved in WAV format in the Windows operating system for perfect original sound quality without quality loss. The formats and sampling frequencies that are supported by Pioneer products are LPCM (16/22.05/24/32/44.1/48 kHz) and MS ADPCM (22.05/44.1 kHz).

Headunits — Audio

ASL (Automatic Sound Leveliser): Automatic Sound Leveliser (ASL) technology electronically and automatically adjusts volume and frequencies to mask varying degrees of exterior noise.

BMX (Bitmetric Equaliser): Enhances digital compressed audio by adjusting the signal output level and tonal characteristics according to the signal input level, resulting in a more natural and more comfortable sound. BMX can also improve the listening experience of uncompressed audio files that originate from a poor original source.

BTB (Bass Treble Boost): BTB sound tuning is a simple, yet effective, sound customisation function. One push of the BTB button allows you to switch between 3 preset equalisation curves that boost the bass and high-range frequencies.

Built-in DSP: Uses digital technology to correct a vehicle's interior acoustics. The system also offers various sound fields to recreate different listening environments in your car (Studio, Jazz Club, etc.).

Direct Sub Drive: MOSFET 50 and EEQ+ can be used together to get Direct Sub Drive. EEQ+ filters the rear channels output; then, MOSFET 50 — due to ample audio power — drives Pioneer's high sensitivity subwoofers directly, without using a separate component amplifier. MOSFET 50 can also drive 2-ohm speakers, pumping out an incredible 1 x 70 W in the rear, giving the unique setup of a 2 x 50 W front and 1 x 70 W subwoofer system.

EEQ: For the maximum in customised in-car sound, Pioneer developed the Easy EQ (EEQ) system — an incredible advancement over traditional bass/treble adjustments. You can choose between one of the preset curves or the 3-band (parametric) equaliser curve. And with more parameters, it sounds like a Digital EQ system. (Also see page 14).

EEQ (Easy Equaliser) +: EEQ (Easy Equaliser) + expands EEQ further with either a Low Pass Filter (LPF) or a LPF plus High Pass Filter (HPF), for onboard network capability.

EQ-EX (Equaliser Expansion): EQ-EX (Equaliser Expansion) gives a boost to the current preset equaliser settings. By pressing the EQ-EX button each EEQ curve is acoustically tuned for optimum effect, giving a more dramatic effect and a new edge to the music.

FIE (Front Image Enhancer): This function shifts the sound focus forward electronically, without having to adjust the fader control, by cutting off high frequency signals to the rear speakers. It gives an extremely clear sound image in the front of the car, without attenuating dynamic bass response from the rear speakers.

Hi-Volt Pre-Outs: By providing a strong signal, with less noise and more definition, the Hi-Volt pre-outs reduce demand on the input circuit of the amps so they can work with lower gain settings, resulting in improved sound quality and a wider dynamic range.

Loudness Control: At low volume levels, ambient noise levels in the vehicle can overpower low- and high-frequency sounds in music. Loudness control provides a one-button way to boost these frequencies and provide better overall sound at low volume levels.

SFEQ (Sound Focus Equaliser): SFEQ lets you control bass and treble settings for front and rear independently for easy customisation of the total sound. Vocals can be brought to the front stage while bass performance is kept well balanced, producing a more natural effect.

Source Level Adjuster (SLA): Independently adjusts the volume ratio between all of the headunit's sources (using the FM volume level as a reference), so the start-up volume between sources will always be the same.

Headunits — System Control

AUX-In for External Music Sources: All Pioneer IP-Bus headunits units allow the connection of external music sources (with RCA outputs), such as portable recorders, micro-cassettes, etc., through the MCD bus connection. (Adapter CD-RB20).

DAB Control: Pioneer products with IP-Bus connectivity offer 2 levels of DAB control — Full and External (EXT) — for pure CD-quality sound by digital radio. Full Control offers you the possibility to take full advantage of an optional DAB tuner, with convenient added features such as Automatic Switching between DAB and FM RDS whenever the DAB signal is lost. EXT Control means you can control most DAB features, such as Service Component Selection and Text Display, but not DAB to FM Automatic Switching.

Headunits — Ergonomic features

Multi-Language Display: A user-friendly multi-language display allows you to select from up to 6 languages* to navigate the menu in the language of your choice.

*** English, French, German, Italian, Spanish, Dutch**

Amplifiers

IRRP (Independent Rail Regulating Power supply): In ordinary amplifiers only the positive rail is truly regulated while the negative rail is not, causing performance loss. The IRRP technology regulates both the positive and the negative rail separately for unsurpassed reliability and performance.

LCD (Low Current Density) design methodology: While a high current density design causes parts to overheat and even causes damage during extreme demands, the magnetic components of the PRS-D5000SPL have been designed for low current density. This ensures the highest possible power carrying capability, which makes this amp run more efficiently and reliably.

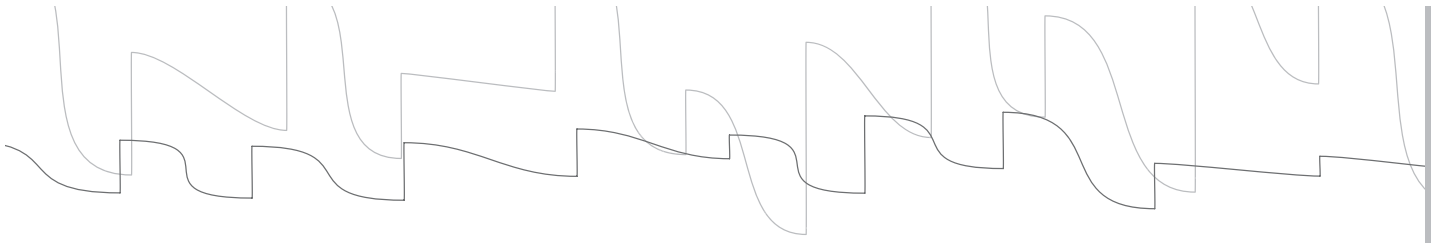
MASS (Multi Amplifier Synchronisation System): This Pioneer exclusive technology allows for easy implementation for multi-amplifier systems. You can control the settings of many amplifiers through one 'master' amp, instead of having to adjust each amp individually. (Also see page 22).

Speakers & Subwoofers

3-layer Fibre Woven Radial Surround: The innovative patent-pending 3-layer Fibre Woven Radial Surround consists of two outer layers and one inner layer of interwoven fibre. This results in an extremely durable and resilient surround which improves the high power capability.

Dual Voice Coil: The flexible wiring configurations of the Dual Voice Coil (DVC) subwoofers, when used in combination with a low load impedance compatible amplifier, can give even more powerful bass reproduction capability. DVC subwoofers have 2 voice coils, of 4 ohm impedance each. Connect the voice coils in parallel for the power of a 2 ohm subwoofer or connect them in series and get an 8 ohm subwoofer. These in turn allow various installation configurations and creation of a superior system.

IMPP™ (Injection-Moulded Polypropylene) Composite Cone: Pioneer uses a special injection moulding that ensures uniform cone thickness for superior linearity and clarity. Pioneer's "Composite" technology guarantees the perfect mix of polypropylene and carbon-fibre, graphite and other materials to optimise the speaker cone for its specific application (woofers, midranges, or tweeters, etc.).



CD RDS TUNERS FEATURES	*DEH-P9600MP*	*DEH-P8600MP*	*DEH-P80MP*	*DEH-P77MP*	*DEH-P7700MP*	*DEH-P6700MP*	*DEH-P5700MP DEH-P5730MP*	*DEH-4700MP DEH-4700MPB*	*DEH-3700MP DEH-3730MP*	*DEH-2700R DEH-2700RB*	*DEH-1700R DEH-1730R*
TUNER											
Adaptive RDS (PI, PS, AF, TP/TA)	•	•	•	•	•	•	•	•	•	•	•
PTY (Search and Alarm)	•	•	•	•	•	•	•				
News interrupt feature	•	•	•	•	•	•	•				
Radio text	•	•	•	•	•						
ARC FM	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q	D4Q
BSA (Best TP Station Auto Search)	•			•	•	•	•	•	•	•	•
High speed PLL Synthesiser tuner	•	•	•	•	•	•	•	•	•	•	•
PNS (Pulse Noise Suppressor)	•	•	•	•	•	•	•	•	•	•	•
No. of presets	24	24	24	24	24	24	24	18	18	18	18
BSM (Best Stations Memory)	•	•	•	•	•	•	•	•	•	•	•
CD PLAYER											
Oversampling digital filter	8x	8x	8x	8x	8x	8x	8x	8x	8x	8x	8x
D/A converter	1-bit (Burr Brown)	1-bit (Burr Brown)	1-bit	1-bit (Burr Brown)	1-bit	1-bit	1-bit	1-bit	1-bit	1-bit	1-bit
Fast forward/reverse	•	•	•	•	•	•	•	•	•	•	•
Track Search/Scan/Repeat	•	•	•	•	•	•	•	•	•	Search/Repeat	Search/Repeat
Track/Manual search	•	•	•	•	•	•	•	•	•	•	•
Random play	•	•	•	•	•	•	•	•	•		
Last position memory	•	•	•	•	•	•	•	•	•	•	•
Disc title memory	•	•	•		•	•	•				
CD text	•	•	•	•	•	•	•	•	•		
CD-R playback	•	•	•	•	•	•	•	•	•	•	•
CD-RW playback	•	•	•	•	•	•	•	•	•	•	•
Compressed audio playback	MP3/WMA/ WAV (1)	MP3/WMA/ WAV (1)	MP3/WMA/ WAV (1)	MP3/WMA (1)	MP3/WMA/ WAV/AAC (2)	MP3/WMA/ WAV	MP3/WMA/ WAV	MP3/WMA/ WAV	MP3/WMA/ WAV		
AUDIO											
Max. output power (watts)	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 60 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	45 W x 4	MOSFET 50 W x 4	45 W x 4
DIN output power (watts: DIN 45324, +B = 14.4 V)	4 x 27	4 x 27	4 x 36	4 x 27	4 x 27	4 x 27	4 x 27	4 x 27	4 x 25	4 x 27	4 x 25
Built in DSP	•	•									
Graphic equaliser	13-band	13-band									
Listening position selector	•	•									
Preset equaliser	5-mode	5-mode									
User preset equaliser	2-mode	2-mode									
Source equalisation memory	•	•									
Auto time alignment	•	•									
Auto EQ	•	•									
BBE	•	•									
HPF	•	•									
LPF	•	•									
Digital ASL (Automatic Sound Leveliser)	•	•									
3-way network	•	•									
EEQ Plus			•	•	•	•	•				
EEQ								•		•	
BTB (3)									•		•
5-mode preset equaliser (4)			•	•	•	•	•	•		•	
4-mode BTB setting (5)									•		•
Custom preset equaliser			1	1	1	1	1	1	1	1	1
3-band parametric equaliser			•		•	•	•	•		•	
Source equalisation memory			•	•	•	•	•				
Selectable loudness			•	•	•	•	•	•	•	•	•
Selectable FIE (Front Image Enhancer)							•	•		•	
HPF			•	•	•	•	•				
LPF			•	•	•	•	•				
EQ-EX			•		•	•					
SFEQ (Sound focus equaliser)			•		•	•					
ASL (Automatic Sound Leveliser)			•	•	•	•					
Direct sub drive				•	•	•					
Spectrum analyser	•	•									
L/R level meter	•	•	•		•						
Level indicator	•	•	•		•						
Loudness	•	•	•	•	•	•	•	•	•		
Source level adjuster	•	•	•	•	•	•	•	•	•	•	•
Fader	•	•	•	•	•	•	•	•	•	•	•
RCA pre-out	3 (F + R + S/W)	3 (F + R + S/W)	3 (F + R + S/W or Non FAD)	3 (F + R + S/W or Non FAD)	3 (F + R + S/W or Non FAD)	2 (F + S/W or Non FAD)	2 (F + R)	1	1	1	1
High voltage output	•	•	•	•							
GENERAL											
Sub-display output	•	•	•		•	•	•				
Multi-CD control	•	•	•	•	•	•	•				
CD text	•	•	•	•	•	•	•	•	•		
Source TV control	•	•	•	•	•	•	•				
DAB tuner control	•	•	•	•	•	EXT	EXT				
Source DVD control	•	•	•	EXT	•	EXT	EXT				
List search function	•	•	•								
External unit control via IP-Bus	2	2	2	2	2	2	2				
AUX-In (with optional CD-RB20)	•	•	•	•	•	•	•				
Standard remote control	•	•	•		•	•					
Remote control ready				•			•	•			
Hard-wired remote input	•	•	•	•	•	•	•	•		•	
ISO connector	•	•	•	•	•	•	•	•	•	•	•
Display illumination	Colour Organic EL	Colour Organic EL	OEL-NEW BLUE	WHITE	OEL - PURE BLUE	LCD	LCD	LCD	LCD	LCD	LCD
Dual button illumination					•						
Rotary volume	•	•	•	•	Pop-out	Pop-out	Pop-out	•		•	
Auto-flap mechanism	• (dual motion)	•	•								
Flap-type front panel				•	•	•	•				
Removable front panel	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	• (6)	•	•	•	•
Cellular telephone auto muting	•	•	•	•	•	•	•	•		•	
Speaker input for hands-free	•	•									
iPod® adapter ready	EXT	EXT	EXT	EXT	EXT	EXT	EXT				
Flexible angle installation	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°	0 – 60°
Multi-language display	•										

(1) With Repeat Play (File/Current Folder) (2-1) AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-4. (2-2) iTunes® AAC Playback: AAC players can decode only AAC files ripped and encoded using iTunes®; they cannot decode AAC DRM files downloaded from iTunes music store®. iTunes is a trademark of Apple Computer, Inc., registered in the U.S. and other countries. (3) Bass Treble Booster
(4) Superbass/Powerful/ Natural/Vocal/Flat (5) Dynamic/Power/Max/Flat (6) With safety warning beep

GLOSSARY / FEATURE & SPECIFICATION CHARTS

DOUBLE-DIN AND CASSETTE TUNERS FEATURES	*FH-P4100R*	*KEH-P7020R*	*KEH-P6020R KEH-P6020RB*	*KEH-P4020R KEH-P4023R*	*KEH-P2030R KEH-P2033R*	*KEH-1033 KEH-1032*
TUNER						
Adaptive RDS (PI, PS, AF, TP/TA)	•	•	•	•	•	
PTY (Search and Alarm)	•	•		•	•	
News interrupt feature	•	•	•			
Radio Text	•	•				
ARC FM	ARC 5	ARC 5	ARC 5	ARC 5	ARC 5	ARC 5
BSA (Best TP Station Auto Search)	•	•	•	•	•	
High speed PLL Synthesiser tuner	•	•	•	•	•	
PNS (Pulse Noise Suppressor)	•	•	•	•	•	•
No. of presets	24	24	24	18	18	24
BSM (Best Stations Memory)	•	•	•	•	•	•
CASSETTE						
Auto-Reverse	•	•	•	•	•	•
Full Logic Control	•	•	•	•		
Dolby NR	B	B				
Metal 70's Tape Selector	AUTO	AUTO	AUTO			
Music Search	•	•	•	•		
Blank Skip and Repeat	•	•	•	•		
Radio Intercept	•	•	•	•	•	•
Playing Time Tape Counter	•	•	•	•		
Head*	•	•	•	•		
CD PLAYER						
Oversampling digital filter	8x					
D/A Converter	1-bit					
Track Search/Scan/Repeat	•					
Random Play	•					
Last position memory	•					
Disc Title Memory	•					
CD Text	•					
CD-R Playback	•					
CD-RW Playback	•					
AUDIO						
Max. output power (watts)	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	MOSFET 50 W x 4	4 x 40	4 x 40
DIN output power (watts: DIN 45324, +B = 14.4 V)	4 x 27	4 x 27	4 x 27	4 x 27	4 x 22	4 x 22
Built-in DSP	•					
EEQ Plus	•	•	•			
EEQ				•		
5-mode preset equaliser (1)	•	•	•	•		
Custom preset equaliser	2	2	2	1		
3-band parametric equaliser	•	•	•			
3-band equaliser				•		
Source Equalisation Memory	•	•	•			
Selectable Loudness (3-mode)	•	•	•	•	•	•
Selectable FIE (Front Image Enhancer)				•		
HPF	•	•				
LPF	•	•	•			
SFEQ (Sound Focus Equaliser)		•	•			
ASL (Automatic Sound Leveliser)		•				
Direct Sub Drive	•	•	•			
Spectrum analyser	•					
L/R level meter	•	•				
BTB (Bass/Treble booster)					•	•
2-mode Loudness					•	•
Source level adjuster	•	•	•	•	•	•
Fader	•	•	•	•	•	•
RCA Pre-Out	2 (F + R or S/W)	3 (F + R + S/W or Non Fad)	2 (F + R or S/W)	1	1	
GENERAL						
Multi-CD Control/CD Ready	•	•	•	•	•	
ITS (Instant Track Selection)	•	•	•			
Disc Title Memory	•	•	•			
CD Text	•	•	•			
Digital Compression/Dynamic Bass Emphasis	•	•	•			
Source TV Control	•	•	EXT	EXT	EXT	
Source CD Control	•	•	EXT	EXT	EXT	
DAB Tuner Control	EXT	•	EXT	EXT	EXT	
External unit control via IP-Bus	2	2	1	1	1	
AUX-In (with optional CD-RB20)	•	•	•	•		
Remote Control Ready	•		•	•		
Standard remote control		•				
ISO Connector	•	•	•	•	•	•
Display illumination	BLUE	OEL-BLUE	MULTI/BLUE (3)	MULTI	SINGLE	SINGLE
Dual button illumination	(2)	•	•			
Rotary volume		Pop-up	Pop-up			
Flap-type Front panel		•	•	•		
Removable Front Panel	• (4)	• (4)	• (4)	•	•	•
Cellular telephone auto muting	•	•	•	•		
Hands-free ready		•				

* SAT TWIN-CUT (1) Superbass/Powerful/Natural/Vocal/Flat (2) FH-P4100R: VW red button illumination (3) Multi-colour illumination: KEH-P6020R, blue illumination: KEH-P602RB (4) With safety warning beep

DEX-P90RS — COMPONENT CD/RDS TUNER

TUNER
- RDS (PI, PS, AF, TP/TA), PTY (Search and Alarm), News Interrupt feature and Radio Text
- High Speed PLL ARC 5 Synthesiser tuner with BSA (Best TP Station Auto Search), BSM (Best Stations Memory) and PNS (Pulse Noise Suppressor)
- 24 Station Presets

CD PLAYER
- 24-bit D/A converter with 8 times Oversampling Digital filter
- Fast forward/reverse
- Track Search/Scan/Repeat
- Track/Manual search
- Random Play
- Last Position Memory
- Disc Title Memory
- CD Text
- CD-R/CD-RW playback with Skip Play

AUDIO
- Separate Bass/Treble
- Source Level Adjuster
- Fader
- 3 Gold-plated RCA pre-outs (Front + Rear + Non Fading)
- High Voltage output
- IP-Bus input/output
- Optical Digital input/output

GENERAL
- Multi-CD Control with Disc Title Memory and CD Text
- Source TV Control
- DAB Tuner Control
- Source DVD Control
- External Unit Control via IP-Bus (2 units)
- AUX-In (with optional CD-RB20)
- Slide-type Remote Control
- Digital Clock
- OEL white display illumination
- Display Off
- Auto-flap mechanism
- Removable front panel with safety warning beep
- Cellular telephone auto muting
- Flexible angle installation (0 — 60°)
- Copper-plated chassis
- Aluminium finished front panel

DEQ-P90 — DIGITAL PREAMP/EQUALISER

- 31-Band L/R independent graphic equaliser (1/3 oct) with level control (0.5 step, ± 12 dB)
- 4-Way independent L/R crossover network (High, Mid, Low, Subwoofer)
  - Crossover frequency: 20 Hz — 20 kHz (1/3 oct)
  - Slope: 0*, -6, -12, -18, -24, -30, -36 dB/oct
- Time Alignment for clear sound focus
- Listening Position selector (FR/FL/F/OFF)
- 24-bit Burr-Brown D/A converters
- High performance 8 times oversampling digital filter
- Optical Digital Input for connection with DEX-P90RS
- High Voltage output
- Gold-plated 8-channel RCA output (High/Mid/Low/Subwoofer)
- Parametric Bass/Treble
- Electronic Volume
- Gold-plated Power Screw Terminals
- Copper-plated chassis
- Installation Kit

*** Not available for HPF of high mode.**

PRS — AMPLIFIERS FEATURES	PRS-A700	PRS-A500	PRS-D5000SPL
Max. output power	4 x 100 W 2 x 300 W	2 x 200 W 1 x 600 W	1 x 1500 W 1 x 3000 W
LPF/HPF network (-12 dB/oct)	40 — 120 Hz	40 — 120 Hz	
Variable LPF (-18/-24 dB/Oct)			40 — 240 Hz
Input level/gain control (L/R INDEPENDENT)	•	•	
Input level/gain control			•
PWM (L/R INDEPENDENT) regulated MOSFET power supply	•	•	
PWM regulated MOSFET power supply			•
High voltage input capability (200 mV — 6.5 V)	•	•	•
Low load impedance capability (2 — 8 Ω)	•	•	•
Subsonic Filter			40 — 120 Hz 0 — 12 dB
Gold-plated RCA input	•	•	
RCA input terminals			•
RCA output terminals			•
Gold-plated screw-type speaker terminals	•	•	
Block-type speaker terminals			•
Large gold-plated power/ground terminals (screw type)	•	•	
Block-type power/ground terminals			•
High performance balanced isolator circuit	•	•	•
MOSFET output section	•	•	
SYNC control			•

PRS — AMPLIFIERS SPECIFICATIONS	PRS-A700	PRS-A500	PRS-D5000SPL
DIN output power (DIN 45324, +B = 14.4 V)	4 x 70 W or 2 x 210 W (4 Ω)	2 x 140 W or 1 x 500 W (4 Ω)	1 x 1950 W (2 Ω) 1 x 1100 W (4 Ω)
Continuous output power (RMS) Watts 14.4 V			
(20 Hz — 20 kHz/4 Ω)	4 x 50 W	2 x 100 W	1 x 750 W
(20 Hz — 20 kHz/2 Ω)	4 x 75 W	2 x 150 W	1 x 1500 W
(Bridged 4 Ω)	2 x 150 W	1 x 300 W	
Frequency response (Hz) (+0 dB, -1 dB)	10 — 80,000 Hz	10 — 80,000 Hz	10 Hz — 240 Hz
Distortion (%) (10 W/1 kHz)	0.003	0.003	
(50 W/100 Hz)			‹ 0.05
S/N ratio	› 108 dB	› 108 dB	› 100 dB
Input level control	200 mV — 6.5 V	200 mV — 6.5 V	200 mV — 6.5 V
Max. current consumption (A/4 Ω)	28 A	25 A	70 A
Chassis size (W x H x D mm)	300 x 63 x 330	300 x 63 x 330	300 x 64 x 330
Unit weight (kg)	5.8 kg	5.8 kg	7.3

Warning: PRS amplifiers are designed to supply higher output power than conventional amplifiers. Therefore, please use a subwoofer whose nominal input power is about twice the connected PRS amplifier's continuous output power.

AMPLIFIERS FEATURES	GM-7100M	GM-6100F	GM-5100T	GM-3100T
Variable LPF (-12 dB/Oct)	40 — 240 Hz	40 — 120 Hz		
Variable HPF (-12 dB/Oct)		40 — 120 Hz		
LPF (-12 dB/Oct)			80 Hz	80 Hz
Input level/gain control	•	•	•	•
PWM regulated MOSFET power supply	•	•	•	
Speaker level input	•	• (A and B channel)	•	•
Load impedance capability (2 — 8 Ω)	•	•	•	•
Bass Boost	50 Hz 0/6/9/12 dB (Remote)		50 Hz 0/6/12 dB	
Large screw-type power/ ground terminals	•	•	•	•
Screw-type speaker terminals	•	•	•	•
High-performance balanced isolator circuit	•	•	•	•
RCA input terminals	•	•	•	•
RCA output terminals		•		

AMPLIFIERS SPECIFICATIONS	GM-7100M	GM-6100F	GM-5100T	GM-3100T
DIN output power (DIN 45324, +B = 14.4 V)	1 x 380 W (4 Ω)	4 x 80 W or 2 x 230 W (4 Ω)	2 x 175 W or 1 x 520 W (4 Ω)	2 x 70 W or 1 x 200 W (4 Ω)
Continuous output power (RMS) Watts 14.4 V (20 Hz — 240 kHz/2 Ω)	1 x 360 W			
(20 Hz — 240 kHz/4 Ω)	1 x 250 W			
(20 Hz — 20 kHz/2 Ω)		4 x 75 W	2 x 190 W	2 x 75 W
(20 Hz — 20 kHz/4 Ω)		4 x 60 W or 2 x 150 W	2 x 125 W or 1 x 380 W	2 x 60 W or 1 x 150 W
Frequency response (Hz) (+0 dB, -1 dB)		10 Hz —50,000 Hz	10 Hz — 50,000 Hz	10 Hz — 50,000 Hz
(+0 dB, -3 dB)	10 Hz — 240 Hz			
Distortion (%) (10 W/1 kHz)		0.01	0.015	0.008
(10 W/100 Hz)	0.03			
S/N ratio	› 100 dB	› 95 dB	› 95 dB	› 100 dB
High voltage input capability	200 mV — 6.5 V	200 mV — 6.5 V	200 mV — 6.5 V	200 mV — 6.5 V
Max. current consumption (A/4 Ω)	33 A	35 A	30 A	15 A
Chassis size (W x H x D mm)	300 x 60 x 327	300 x 60 x 327	300 x 60 x 327	300 x 60 x 186
Unit weight (kg)	4.7	4.7	4.7	2.7

PIONEER WORLD

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